

Message

From: Cody, Ray [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=79AA01F2DD4C4AF59DC7F57C5D51D221-CODY, RAY]
Sent: 7/8/2015 2:54:13 PM
To: Parsons, Roger [Roger.Parsons@town.barnstable.ma.us]; Saad, Dale [Dale.Saad@town.barnstable.ma.us]
CC: Matt Lundsted [mlundsted@ceiengineers.com]; Nick Cristofori [ncristofori@ceiengineers.com]
Subject: BMP performance during recent high-volume storm event
Attachments: 2015 07 01 - Hyannis BMP after storm event - 02.JPG; 2015 07 01 - Hyannis BMP after storm event - 01.JPG

hi Roger / Dale,

on July 1, 2015, the Cape experienced a large storm event – approximately 2” in about 1 hour (recall the BMP is designed to treat a 0.3 in. storm).

some photos taken by Matt Lundsted soon after this event (attached) evidenced performance of the Hyannis BMP in handling this event.

the high percentage of impervious cover for the sub-catchment caused an extremely quick high-volume discharge from the MS4 trunk line into the BMP causing the BMP to overflow as designed; once the MS4 flow stabilized, the ponding volume subsided down into the subsurface ISR.

this event was a good first verification that the BMP could manage a climate change-like high flow/volume storm event.

as the other photo attached evidences, the event also points out the need to ensure that the overflow grate is clear of debris. in this case, it appears as though grass cuttings from the BMP area became entrained in the overflow. fortunately, the cuttings / debris were not substantial enough to have clogged the overflow grate! we are looking into the possibility of retrofitting the overflow grate with a 'beehive' grate.

Paul Chouinard is on vacation and we've stopped all work on the Cape until early Aug. until we've had a chance to look into this, please just bear in mind to check the grate before anticipated storm events to ensure it remains unobstructed. this will need to be an important O&M item to manage for the future. for instance, your Structures and Grounds Division (i presume) will need to understand that grass cuttings will need to be bagged/ collected from the BMP area.

R. Cody
U.S. EPA - Region 1
Mail Code - OEP 06-1
Boston, MA 02109-3912
617.918.1366
cody.ray@epa.gov

The information contained in this email, and any and all accompanying documents constitutes confidential information. This information is the property of the United States Environmental Protection Agency. If you are not the intended recipient(s) of this information, any disclosure, copying, distribution, or the taking of any action in reliance on this information is strictly prohibited. If you receive this message in error, please notify me immediately to make arrangements for its return. Thank you.